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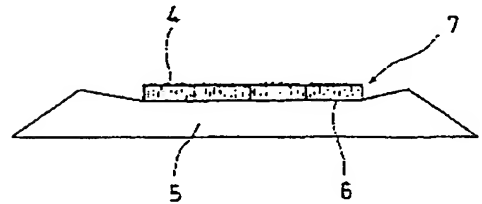
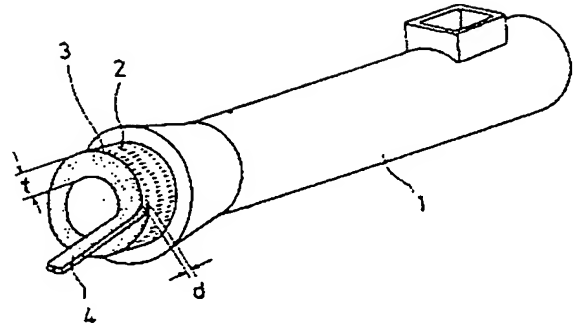
APPLICATION DATE : 17-04-89
APPLICATION NUMBER : 01096737

APPLICANT : TOYO TIRE & RUBBER CO LTD;

INVENTOR : MATSUMOTO HIROSHI;

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TITLE : STUDLESS TIRE AND MANUFACTURE THEREOF



ABSTRACT : PURPOSE: To improve the antislipping performance by dispersing powders or short fibers formed into bar-shaped particles into a tread surface layer with the particles oriented in the direction of thickness of the tread.

CONSTITUTION: A rubber composite obtained by mixing a rubber composite for use on the tread of a ordinary tire with steel short fibers about 0.1mm long with average gage of about 0.01mm, and further by blending resorsin formaldehyde condensate and methylolmelamine as bonding agents, is extruded by a tread extruder 1 to form a cylindrical body 2. A rotary knife whose blade width is larger than the wall thickness t of the side wall 3 of the cylindrical body 3 is applied to the cylindrical body at about right angles to the body, and cuts off the body into a helical shape with a pitch d smaller than the wall thickness to form a strip 4 while it moves in the direction of length of the cylinder 2. The plural strips 4 are juxtaposed on the upper surface of a base tread 5 to form a trad surface layer 7. The antislipping performance can be improved by this configuration.

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